## **AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A wireless signal switching circuit for switching a plurality of transmitter and receiver signals having different frequencies in wireless communication for communication by at least a first communication system and a second communication system, comprising:

an antenna terminal (11) connected to an antenna (ANT);

a first signal route switching means (20) having a plurality of switch means (21, 23, 24, 60) for selecting a plurality of transmitter and receiver signals having different frequencies (F2 or F3) in the first communication system, the different frequencies including at least a second frequency and a third frequency (F2, F3);

a phase rotating means (40) having one end (40a) connected to the antenna terminal (11) and imparting a phase rotation of 90 degrees to the phase of the signal of the frequency component supplied to the first signal route switching means (20); and

a second signal route switching means (30) having a diplexer (31) for separating the transmitter and receiver signals having a further different first frequency (F1) of the first second communication system lower than the plurality of first and second frequencies (F2, F3) in of the first communication system explained above and the transmitter and receiver signals of the second first communication system, a common input and output terminal (31a) of the diplexer (31) being connected to the other end (40b) of the phase rotating means, a first filter side terminal (31b) of the diplexer (31) being supplied with transmitter and receiver signals having a further different the first frequency (F1) of the first second communication system, and a second filter side terminal (31c) of

the diplexer (31) being supplied with transmitter and receiver signals of the second communication system, and

an inductor (41) being connected between the one end (40a) connected to the antenna terminal (11) and the other end (40b) connected to the diplexer (31) in the second routing means (30).

- 2. (Original) A wireless signal switching circuit as set forth in claim 1, wherein the phase rotating means has a characteristic of attenuating harmonic components of signals transmitted by the second communication system.
- 3. (Original) A wireless signal switching circuit as set forth in claim 1, wherein the first filter side of the diplexer (31) is a low frequency filter side, and the second filter side of the diplexer (31) is a high frequency filter side.
- 4. (Currently Amended) A wireless signal switching circuit as set forth in claim 1, wherein the phase rotating means is provided withcomprises:

an-the inductor (41) having-one end connected to the antenna terminal (11) and having the other end (40b) connected to the common input and output terminal (31a) of the diplexer (31),

a first capacitor (42) connected between one end of the inductor (41) and a reference potential node,

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a second capacitor (43) connected between the other end of the inductor and the reference potential node,

a first switch means (44, 60) having one end connected to the other end of the inductor (41), and

a third capacitor (45) connected between the other end of the first switch means (44, 60) and the reference potential node, and

has the characteristics

that a circuit defined by the inductor (41) and the first to third capacitors (42, 43, 45) imparts a phase rotation of 90 degrees to the phase of the signal of the frequency component supplied to the first signal route switching means (20) when the first switch means is activated and that a circuit defined by the inductor (41) and the first and second capacitors (42, 43) attenuates the harmonic component of the signal transmitted by the second communication system when the first switch means is de-activated.

5. (Currently Amended) A wireless signal switching circuit as set forth in any one of claims 1 to 4 claim 1, wherein

the first communication system is a triple band GSM system, and the second communication system is a UMTS system.

6. (Currently Amended) A wireless signal switching circuit as set forth in claim 5, wherein the first signal route switching means (20) comprises:

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a first receiver signal switching circuit connected to the antenna terminal (11) and

having a plurality of switch means (23, 24) for selecting receiver signals (F2RX or F3RX) having a

plurality of different frequencies (F2 or F3)the different frequencies including at least the second

frequency and the third frequency (F2, F3) in the first communication system and

a first transmitter signal switching circuit connected to the antenna terminal (11) and

having a switch means (22) for selecting transmitter signals (F2 or F3TX) having the different

frequencies including at least the second frequency and the third frequency (F2, F3)a plurality of

different frequencies (F2 or F3) in the first communication system and a filter means connected to

the switch means.

7. (Currently Amended) A wireless signal switching circuit as set forth in claim 1, wherein

the second signal route switching means (30) has a switch means (32) connected to the first filter

side terminal (31b) of the diplexer (31) and selecting a transmitter signal having a further different

frequency (F1) of the first communication system and a switch means (33) for selecting a receiver

signal having a further different frequencythe first frequency (F1) of the first second communication

system.

8. (Currently Amended) A wireless communication apparatus provided withcomprising:

a wireless transmitter and receiver antenna (ANT) and

a wireless signal switching circuit as set forth in any one of claims 1 to-[4] 7.

9. (Original) A wireless communication apparatus as set forth in claim 8, wherein:

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the wireless communication apparatus is a mobile wireless communication apparatus including a dual mode compatible mobile phone of a triple band GSM system as the first communication system and a UMTS system as the second communication system.

10. (Currently Amended) A wireless communication apparatus as set forth in claim <u>1.8</u>, wherein:

the second filter side terminal of the diplexer is connected to a front end of a UMTS use transmission and reception circuit, and

the front end has:

a duplexer (561) for switching the UMTS transmitter signal and UMTS receiver signal,

a low noise amplifier circuit (562) for amplifying the UMTS receiver signal input through this duplexer, and

a power amplifier circuit (563) for amplifying the UMTS transmitter signal.

11. (Currently Amended) A wireless signal switching circuit as set forth in claim 5, wherein the second signal route switching means (30) has a switch means (32) connected to the first filter side terminal (31b) of the diplexer (31) and selecting a transmitter signal having a further different frequency (F1) of the first communication system and a switch means (33) for selecting a receiver signal having a further different frequency the first frequency (F1) of the first second communication system.

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- 12. (Currently Amended) A wireless signal switching circuit as set forth in claim 6, wherein the second signal route switching means (30) has a switch means (32) connected to the first filter side terminal (31b) of the diplexer (31) and selecting a transmitter signal having a further different frequency (F1) of the first communication system and a switch means (33) for selecting a receiver signal having a further different frequency the first frequency (F1) of the first second communication system.
  - 13. (Previously Presented) A wireless communication apparatus provided with:

    a wireless transmitter and receiver antenna (ANT) and

    a wireless signal switching circuit as set forth in any one of claim 5.
  - 14. (Previously Presented) A wireless communication apparatus provided with:

    a wireless transmitter and receiver antenna (ANT) and

    a wireless signal switching circuit as set forth in any one of claim 6
  - 15. (Cancelled).
- 16. (Previously Presented) A wireless communication apparatus as set forth in claim 5, wherein:

the wireless communication apparatus is a mobile wireless communication apparatus including a dual mode compatible mobile phone of a triple band GSM system as the first communication system and a UMTS system as the second communication system.

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17. (Previously Presented) A wireless communication apparatus as set forth in claim 6, wherein:

the wireless communication apparatus is a mobile wireless communication apparatus including a dual mode compatible mobile phone of a triple band GSM system as the first communication system and a UMTS system as the second communication system.

18. (Previously Presented) A wireless communication apparatus as set forth in claim 7, wherein:

the wireless communication apparatus is a mobile wireless communication apparatus including a dual mode compatible mobile phone of a triple band GSM system as the first communication system and a UMTS system as the second communication system.